

alkaline pulping processes  
 AU Karhunen, Pirkko; Mikkola, Jouni; Brunow, Gosta  
 CS Laboratory of Organic Chemistry, Department of Chemistry,  
 University of  
 Helsinki, FIN-00014, Finland  
 SO Advances in Lignocellulosics Chemistry for Ecologically Friendly  
 Pulping  
 and Bleaching Technologies, European Workshop on  
 Lignocellulosics and  
 Pulp, 5th, University of Aveiro, Aveiro, Port., Aug. 30-Sept. 2,  
 1998  
 (1998), 117-120 Publisher: University of Aveiro, Aveiro, Port.  
 CODEN: 66TZAG  
 DT Conference  
 LA English  
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.95

179.16

STN INTERNATIONAL LOGOFF AT 13:22:26 ON 29 MAY 2003

L5 ANSWER 1 OF 1 CA COPYRIGHT 2003 ACS

AN 137:384652 CA

TI Preparation of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates

IN Tanaka, Nobuyuki; Tamai, Tetsuo; Mukaiyama, Harunobu; Ishikawa, Takehiro;

Kobayashi, Junichi; Akaba, Satoshi; Harada, Hiroshi

PA Kissei Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07C043-315

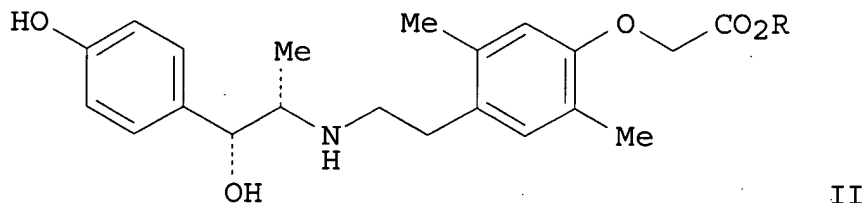
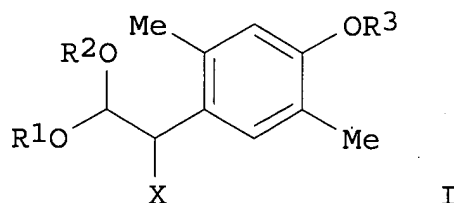
ICS C07B053-00; C07C069-734; C07C213-02; C07C217-60; C07B061-00; C07M007-00

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002338513	A2	20021127	JP 2002-64840	20020311
PRAI	JP 2001-68023	A	20010312		
OS	MARPAT 137:384652				
GI					



AB Dimethylbenzenes I (R1 = lower alkyl; R2 = lower alkyl, H; R3 = H,

CH2CO2R; R = lower alkyl; X = H, OH) are prepd. as intermediates for the

phenoxyacetates II (R = lower alkyl) or their salts. 2,5-Xylenol

(100 g) was treated with **glyoxal di-Me acetal** and NaOH in H<sub>2</sub>O at 55.degree. for 5 h to give 150 g I (R<sub>1</sub> = R<sub>2</sub> = Me, R<sub>3</sub> = H, X = OH), which was converted into II (R = Et) in 4 steps.

ST adrenergic receptor stimulant phenoxyacetate prepn intermediate  
IT Adrenoceptors  
RL: MSC (Miscellaneous)  
(.beta.3; prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates)

IT 476333-87-6P 476333-88-7P 476333-89-8P 476333-90-1P  
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates)

IT 255733-81-4P 476333-91-2P  
RL: IMF (Industrial manufacture); SPN (Synthetic preparation);  
PREP (Preparation)  
(prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates)

IT 95-87-4, 2,5-Xylenol 771-91-5 51673-84-8, Glyoxal dimethyl acetal  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of .beta.3-adrenoceptor-stimulating phenoxyacetates and their intermediates)

L2 ANSWER 3 OF 5 CA COPYRIGHT 2003 ACS

AN 118:6732 CA

TI Process for preparing phenethanol ethers by hydrogenation of phenylglyoxal acetals

IN Durrwachter, John R.; Meier, Michael; Mott, Graham N.; Mueller, Werner H.

PA Hoechst Celanese Corp., USA

SO U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 628,238.

CODEN: USXXAM

DT Patent

LA English

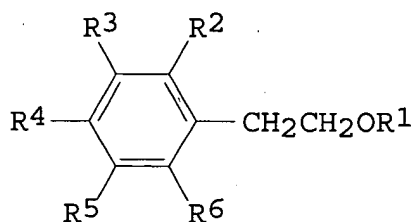
IC ICM C07C041-28

NCL 568630000

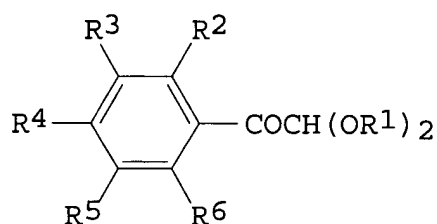
CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5124489	A	19920623	US 1991-755913	19910906
	US 5120855	A	19920609	US 1990-628238	19901213
	IL 98538	A1	19970218	IL 1991-98538	19910617
	CA 2044859	AA	19920614	CA 1991-2044859	19910618
	FI 9103012	A	19920614	FI 1991-3012	19910619
PRAI	US 1989-451675		19891214		
	US 1990-628238		19901213		
OS	CASREACT 118:6732; MARPAT 118:6732				
GI					



I



II

AB Title compds. I [R<sub>1</sub> = primary or secondary C<sub>1</sub>-20 alkyl; R<sub>2</sub>-R<sub>6</sub> = H, alkyl,

(substituted) aryl, OH, alkoxy, (substituted) aryloxy, halo, CO<sub>2</sub>H,

acyloxy, etc.] were prepd. by catalytic hydrogenation of the corresponding

phenylglyoxal acetal II in the presence of an acid catalyst and a metal

catalyst. Thus, a soln. of 4-hydroxyphenylglyoxal di-Me acetal (prepn.

given) in MeOH contg. HCl and moist 10% Pd/C was charged to an autoclave

and the mixt. was hydrogenated at 300 psig and 50.degree.C to give 4-(2'-methoxyethyl)**phenol** in 70% yield.

ST phenylglyoxal acetal hydrogenation; phenylethyl ether

IT Hydrogenation  
(of phenylglyoxal acetals, phenylethyl ethers from)

IT Hydrogenation catalysts  
(palladium, platinum, and nickel with hydrogen chloride, for Ph glyoxal acetals)

IT 99-93-4, p-Hydroxyacetophenone  
RL: PROC (Process)  
(conversion of, to hydroxyphenylglyoxal acetal)

IT 7440-02-0, Nickel, uses 7440-05-3, Palladium, uses 7440-06-4, Platinum, uses  
RL: USES (Uses)  
(hydrogenation catalyst with hydrogen chloride, for Ph glyoxal acetals)

IT 7647-01-0, Hydrogen chloride, uses  
RL: USES (Uses)  
(hydrogenation catalyst with palladium, for Ph glyoxal acetals)

IT 1333-74-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(hydrogenation, of phenylglyoxal acetals, phenylethyl ethers from)

IT 144757-78-8P 144757-79-9P 144757-80-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and hydrogenation of)

IT 56718-71-9P 144757-76-6P 144757-77-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, by hydrogenation of phenylglyoxal acetal)

IT 67-56-1, Methanol, reactions 67-63-0, Isopropanol, reactions 123-51-3,  
Isoamyl alcohol 624-91-9, Methyl nitrite 1002-16-0, Amyl nitrate  
1712-64-7, Isopropyl nitrate  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, in prepn. of hydroxyphenyl **glyoxal acetal**)